

## HAWAII, ISLAND OF MAUI

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## 16614000 WAIHEE RIVER AT DAM NEAR WAIHEE

LOCATION.--Lat 20°56'21", long 156°32'59", Old Hawaiian Datum, Hydrologic Unit 20020000, on right bank at dam 8 ft upstream from the abandoned Waihee canal intake, 2.6 mi southwest from Waihee Point, and 4.4 mi northwest from Wailuku Post Office.

DRAINAGE AREA.--4.20 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1910 to December 1913, November 1983 to current year. Low-flow records not equivalent prior to December 31, 1913, due to Waihee canal diverted water upstream.

GAGE.--Water-stage recorder. Elevation of gage is 605 ft above mean sea level (from topographic map).

REMARKS.--Records computed by Matt Wong. Records fair. No diversion upstream of station.

AVERAGE DISCHARGE.--21 years (water years 1985-2005), 75.6 ft<sup>3</sup>/s (54,780 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,660 ft<sup>3</sup>/s, January 28, 1988, gage height, 8.95 ft, from rating curve extended above 280 ft<sup>3</sup>/s on basis of slope-area measurements at gage heights 6.70 ft and 8.95 ft; minimum, 14 ft<sup>3</sup>/s, July 13, 1995.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,000 ft<sup>3</sup>/s and maximum (\*):

	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
	Sept. 13	2300	*1,590	*4.45

Minimum discharge, 30 ft<sup>3</sup>/s, Nov. 10-14, gage height, 1.31 ft.

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	73	37	65	51	62	34	141	44	47	48	53	97
2	72	32	43	114	44	33	94	43	47	52	58	50
3	39	31	44	43	39	33	102	43	48	61	52	49
4	38	31	45	37	39	32	55	43	42	50	58	52
5	39	32	42	36	35	32	60	43	49	52	49	55
6	38	43	66	36	33	32	62	42	42	46	70	58
7	37	33	99	36	33	32	95	44	55	43	103	80
8	39	31	50	36	32	32	84	45	42	132	298	50
9	37	31	83	84	32	63	99	63	41	115	72	59
10	58	30	52	54	32	247	65	44	46	97	83	51
11	47	30	43	37	108	94	118	41	51	63	73	46
12	38	30	41	36	94	66	60	41	119	126	53	50
13	43	30	40	36	63	41	64	43	53	69	52	136
14	37	448	40	40	37	38	73	49	43	58	52	126
15	36	248	39	35	36	49	83	41	41	190	51	171
16	35	167	39	34	35	37	58	41	40	94	63	99
17	35	79	38	34	37	35	56	40	39	67	51	60
18	37	103	38	43	35	35	52	45	39	79	49	70
19	38	49	38	36	34	34	49	141	81	55	178	52
20	36	45	38	38	34	34	49	122	145	50	66	50
21	35	43	38	47	33	34	48	131	157	108	51	54
22	43	43	38	37	42	40	51	55	76	71	49	78
23	44	47	38	35	37	35	48	47	54	54	50	84
24	48	41	40	34	34	33	49	47	62	53	49	59
25	40	40	38	34	60	34	47	54	51	51	105	50
26	39	42	37	33	52	160	46	43	56	49	59	53
27	43	49	37	175	58	232	45	45	77	48	51	47
28	36	46	63	38	37	310	47	44	49	116	59	49
29	35	51	39	35	---	246	45	51	67	105	51	63
30	42	58	38	34	---	107	45	45	68	87	49	280
31	81	---	37	35	---	85	---	50	---	61	49	---
TOTAL	1,338	2,020	1,426	1,433	1,247	2,349	1,990	1,670	1,827	2,350	2,206	2,278
MEAN	43.2	67.3	46.0	46.2	44.5	75.8	66.3	53.9	60.9	75.8	71.2	75.9
MAX	81	448	99	175	108	310	141	141	157	190	298	280
MIN	35	30	37	33	32	32	45	40	39	43	49	46
AC-FT	2,650	4,010	2,830	2,840	2,470	4,660	3,950	3,310	3,620	4,660	4,380	4,520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)

MEAN	65.6	79.3	70.2	73.9	66.4	87.1	87.5	75.0	68.8	82.2	73.9	68.1
MAX	91.7	150	109	186	106	179	276	143	118	136	99.6	160
(WY)	(1986)	(1991)	(1988)	(1988)	(1988)	(1994)	(1989)	(1987)	(1987)	(1994)	(1991)	(1992)
MIN	27.4	36.8	31.3	29.4	42.2	43.7	36.6	39.4	35.8	52.3	46.1	32.9
(WY)	(1985)	(1985)	(1985)	(1985)	(1993)	(1992)	(1992)	(2003)	(2003)	(2001)	(1984)	(1984)

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16614000 WAIHEE RIVER AT DAM NEAR WAIHEE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR	WATER YEARS 1984 - 2005
ANNUAL TOTAL	25,531	22,134	75.6
ANNUAL MEAN	69.8	60.6	106
HIGHEST ANNUAL MEAN			1994
LOWEST ANNUAL MEAN			50.6
HIGHEST DAILY MEAN	907	Mar 22	1,160
LOWEST DAILY MEAN	30	Nov 10	22
ANNUAL SEVEN-DAY MINIMUM	31	Nov 7	23
ANNUAL RUNOFF (AC-FT)	50,640	43,900	54,780
10 PERCENT EXCEEDS	99	102	126
50 PERCENT EXCEEDS	52	48	54
90 PERCENT EXCEEDS	38	34	38